2401

Bachelor of Computer Application

B.C.A. (I Year) Examination, 2022

INTRODUCTION TO INFORMATION TECHNOLOGY

Paper-I (BCA-101)

Time Allowed : Three Hours

Maximum Marks : 75

Attempt ***five*** *questions in all, selecting* ***one*** *question from each Unit. All questions carry equal marks.*

प्रत्येक इकाई में से ***एक*** *प्रश्न का चयन करते हुए, कुल* ***पाँच*** *प्रश्नों के उत्तर दीजिए।* ***सभी*** *प्रश्नों के अंक समान हैं।*

UNIT-I

1. (*a*) What do you mean by computer ? Write the *five* main key elements of a computer. 7

(*b*) **Discuss computer organisation with suitable example and diagram also.** 8

2. (*a*) (*i*) Convert (10010) from base 2 to decimal.

(*ii*) Convert (1010100) from base 2 to octal. 8

(*b*) What is the function of output units in a computer system ? Give examples of some output devices. 7

UNIT-II

3. (*a*) Differentiate among RAM, ROM, PROM and EPROM. 8

(*b*) What does a processor mean ? Explain the key components of a process in brief. 7

4. Write short notes on the following : 3×5=15

(*a*) Memory dump

(*b*) CD-ROM

(*c*) Magnetic tape.

UNIT-III

5. Perform the following : 5×3=15

(*i*) 01010111 + 00110101

https://pyqlelo.com

(ii) 101 – 111

(iii) 1010 × 101

(iv) 1011 × 1010

(v) 1100 ÷ 101

6. Write short notes on : 3×5=15

(i) I/O to processor communication

(ii) Multiprogramming

(iii) Virtual memory.

UNIT-IV

7. (a) What is software ? Explain different types of software in brief. 7

(b) What do you mean by programming languages ? Why high level languages are easier to learn and use ? Explain in brief. 8

8. (a) What is an operating system ? Write the various functions performed by an operating system. 7

(b) Explain the difference between Windows operating system and DOS operating system. 8

UNIT-V

9. (a) What do you understand by the term 'generation' ? Distinguish between first generation and second generation computers with suitable examples. 8

(b) Explain the difference between distributed and parallel computers. 7

10. Explain the following : 3×5=15

(a) Internet Search Engine

(b) World Wide Web

(c) URL

(d) IP Address

(e) Net Surfing.

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